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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO
10/510,268	8 07/11/2005		William C. Olson		2048/59331-D-PCT-US/JPW/M 1581	
23432	7590 04/24	/2006			EXAMINER	
COOPER & DUNHAM, LLP 1185 AVENUE OF THE AMERICAS NEW YORK, NY 10036				HUMPHREY, LOUISE WANG ZHIYING		
					ART UNIT	PAPER NUMBER
					1648	

DATE MAILED: 04/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

West Control of the C	Application No.	Applicant(s)
	10/510,268	OLSON ET AL.
Office Action Summary	Examiner	Art Unit
	Louise Humphrey, Ph.D.	1648
The MAILING DATE of this communication a Period for Reply		he correspondence address
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by stat Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICAT 1.136(a). In no event, however, may a reply od will apply and will expire SIX (6) MONTHS tute, cause the application to become ABAND	FION. be timely filed from the mailing date of this communication. DONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 05 2a) This action is FINAL. 2b) TI 3) Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. vance except for formal matters	·
Disposition of Claims	·	
4) ⊠ Claim(s) 1-24,28-31 and 34 is/are pending in 4a) Of the above claim(s) is/are withd 5) □ Claim(s) is/are allowed. 6) □ Claim(s) is/are rejected. 7) □ Claim(s) is/are objected to. 8) ⊠ Claim(s) 1-24,28-31 and 34 are subject to reserve the subject to	rawn from consideration.	ment.
Application Papers		
9) The specification is objected to by the Exami 10) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction. The oath or declaration is objected to by the	ccepted or b) objected to by the drawing(s) be held in abeyance. ection is required if the drawing(s) i	See 37 CFR 1.85(a). s objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		•
12) Acknowledgment is made of a claim for forei a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a life	ents have been received. ents have been received in Appl riority documents have been rec eau (PCT Rule 17.2(a)).	ication No reived in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/6	Paper No(s)/M	mary (PTO-413) ail Date nal Patent Application (PTO-152)
Paper No(s)/Mail Date	6) Other:	

Art Unit: 1648

DETAILED ACTION

This Office Action is in response to the preliminary amendment filed on 5 October 2004. Claims 25-27, 32, 33, and 35-73 are canceled. Claims 1-24, 28-31, and 34 are pending and subject to restriction.

Election/Restrictions

Restriction is required under 35 U.S.C. §121 and §372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-23, drawn to a composition comprising a pharmaceutically acceptable particle and a stable HIV-1 pre-fusion envelope glycoprotein trimeric complex operably affixed thereto.

Group II, claims 24, 30, and 31, drawn to a method comprising administering to the subject a prophylactically or therapeutically effective amount of the composition.

Group III, claims 28 and 29, drawn to a vaccine which comprises a therapeutically or prophylactically effective amount of the composition.

Group IV, claim 34, drawn to a method for producing the composition.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking groups I-IV appears to be a composition comprising a pharmaceutically acceptable particle and a stable HIV-1 pre-fusion envelope glycoprotein trimeric complex operably affixed thereto, which is shown by Sanders *et al.* (2000) in view of Creson *et al.* (1999) to lack an inventive step.

Sanders *et al.* describes a trimeric HIV envelope glycoprotein complex containing monomers of variable-loop-deleted variants of gp140 that are stabilized by an

Application/Control Number: 10/510,268

Art Unit: 1648

intermolecular disulfide bond between gp120 and the gp41 ectodomain (Abstract and Introduction).

Sanders *et al.* does not describe a pharmaceutically acceptable particle to operably affix the HIV glycoprotein trimeric complex to.

However, Creson *et al.* describes antibodies immobilized on magnetic beads as well as suggests immobilizing other T-cell surface receptors such as CD2, CD4, CD5, or CD8 (Introduction, ¶1).

Thus, the common technical feature does not make a contribution over the prior art.

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

Irrespective of which Group is elected, Applicants are further required to elect one species from each of the two genera as follows:

- (i) diameter of the particle elect one of claims 10-16;
- (ii) agent affixed to the particle elect one claims 18 and 19.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the

Application/Control Number: 10/510,268

Art Unit: 1648

requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder.

Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one

Art Unit: 1648

or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Louise Humphrey, Ph.D. whose telephone number is 571-272-5543. The examiner can normally be reached on Mon-Fri, 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel can be reached on 571-272-0902. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Louise Humphrey, Ph.D. Assistant Patent Examiner 17 April 2006

JEFFREY STUCKER PRIMARY EXAMINER